

**Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382**

**AIR QUALITY PERMIT
Issued under 401 KAR 52:040**

Permittee Name: Sabert Corporation

Mailing Address: 879 Main Street
Sayreville, NJ 08872

Source Name: Sabert Corporation
Mailing Address: 879 Main Street
Sayreville, NJ 08872

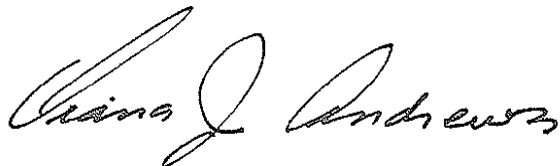
Source Location: KY. Hwy. 1450 (East Blue Lick Road)
Hillview, KY 40229

Permit Number: S-06-209
Source A. I. #: 81499
Activity #: APE20060001
Review Type: Minor Source Construction/Operating
Source ID #: 21-029-00046

Regional Office: Frankfort Region
643 Teton Trail, STE B
Frankfort, KY 40601

County: Bullitt

Application
Complete Date: August 20, 2006
Issuance Date: October 26, 2006
Revision Date:
Expiration Date: October 26, 2016



**John S. Lyons, Director
Division for Air Quality**

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:040, State-origin permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**01 (EP 01) Silo Material Handling**

Description: Ten (10) silos
125 tons/hr throughput capacity
Date installed – Proposed 2006
PM emission control – Dust Collector (DC01)
Control Efficiency - 99.99%

02 (EP 02) Thermoformer Grinders

Description: Eight (8) grinders (electric)
4.8 tons/hr throughput capacity
Date installed – Proposed 2006
No emission control equipment

03 (EP 03) Thermoformer Regrind Bins

Description: Eight (8) regrind bins
4.8 tons/hr throughput capacity
Date installed – Proposed 2006
PM emission control – Dust Collector (DC02)
Control Efficiency - 95%

04 (EP 04) Thermoformer Blender

Description: Eight (8) material handling blenders
8 tons/hr throughput capacity
Date installed – Proposed 2006
PM emission control – Dust Collector (DC03)
Control Efficiency - 99.87%

05 (EP 05) Crystallizer and Process Heater

Description: Eight (8) crystallizer units and eight (8) air heating systems (gas fired)
8 tons/hr crystallizer throughput capacity
0.00058 mcf/hr heater capacity
Date installed – Proposed 2006
PM emission control from the dryer unit – Dust Collector (DC04)
Control Efficiency - 99.99%

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**06 (EP 06) Dryer and Process Heater**

Description: Eight (8) dryer units and eight (8) air heating systems (gas fired)
8 tons/hr crystallizer throughput capacity
0.00058 mcf/hr heater capacity
Date installed – Proposed 2006
PM emission control from the dryer unit – Dust Collector (DC04)
Control Efficiency - 99.99%

07 (EP 07) Material Transfer A

Description: Material transfer equipment eight (8) units (blender-crystallizer-dryer)
8 tons/hr throughput capacity
Date installed – Proposed 2006
PM emission control – Dust Collector (DC03)
Control Efficiency - 99.87%

08 (EP 08) Material Transfer B

Description: Material transfer equipment eight (8) units (dryer-extruder hopper or blender-extruder hopper)
8 tons/hr throughput capacity
Date installed – Proposed 2006
PM emission control – Dust Collector (DC06)
Control Efficiency - 99.87%

09 (EP 09) Extruder

Description: Extruder (8) eight units
8 tons/hr throughput capacity
Date installed – Proposed 2006
No emission control equipment

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**10 (EP 10) Thermoformer**

Description: Thermoformer (8) eight units
8 tons/hr throughput capacity
0.1 lb/hr Silicone emulsion rate capacity
Date installed – Proposed 2006
No emission control equipment

11 (EP 11) Trim Press

Description: Trim Press (8) eight units
8 tons/hr throughput capacity
Date installed – Proposed 2006
No emission control equipment

12 (EP 12) Injection Molding Grinders

Description: Injection Molding Grinders (8) eight units
0.24 tons/hr throughput capacity
Date installed – Proposed 2006
No emission control equipment

13 (EP 13) Injection Molding Regrinders

Description: Injection molding grinders (8) eight units
0.24 tons/hr throughput capacity
Date installed – Proposed 2006
No emission control equipment

14 (EP 14) Injection Molding Blenders

Description: Injection molding blenders (8) eight units
0.8 tons/hr throughput capacity
Date installed – Proposed 2006
PM emission control – Dust Collector (DC04)
Control Efficiency - 99.87%

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

15 (EP 15) Material Transfer B

Description: Material Transfer B (8) eight units
0.8 tons/hr throughput capacity
Date installed – Proposed 2006
PM emission control – Dust Collector (DC04)
Control Efficiency - 99.87%

16 (EP 16) Injection Molding

Description: Injection molders (8) eight units
0.8 tons/hr throughput capacity
Date installed – Proposed 2006
No emission control equipment

17 (EP 17) Cooling Tower

Description: Cooling Tower
0.12 million gallons/hr = 500 tons/ hr throughput capacity
Date installed – Proposed 2006
No emission control equipment

APPLICABLE REGULATION:

401 KAR 59:010, *New process operations*, applies to emission points constructed on or after July 2, 1975

401 KAR 63:020, Potentially hazardous matter or toxic substances

1. Operating Limitations:

Pursuant to 401 KAR 63:020, persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals or plants.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Compliance Demonstration Method:

If the source alters process rates, material formulations, or any other factor that would result in an increase of HAP emissions or the addition of HAP emissions not previously evaluated by the Division, the source shall submit the appropriate application forms pursuant to 401 KAR 52:040, along with modeling to show that the facility will remain in compliance with 401 KAR 63:020. The source may perform a screening analysis of the potential to emit of styrene and any other toxic pollutant emissions at the plant and compare it to established benchmarks (i.e. RFC's, URE's, as applicable).

2. Emission Limitations:

- a. Emissions of particulate matter (PM) from emission points 01 through 017 shall not exceed the Allowable Rate Limit as calculated by the following equation [401 KAR 59:010, Section 3 (2)]:

For process rates 1,000 lb/hr or less: $E = 2.34$

For process rates greater than 1,000 lb/hr up to 60,000 lb/hr: $E = 3.59P^{0.62}$

Where E = rate of emissions in lb/hr, and

P = process weight in tons/hr

- b. Pursuant to 401 KAR 59:010, Section 3(1), the opacity of visible emissions shall not equal or exceed twenty (20) percent for each unit.

Compliance Demonstration Method:

- a. Compliance with the PM limits is demonstrated based on the following parameters:

Emiss. Point	Description	Maximum Operating Rate (tons/hr)	Emission Factor (lb/ton)	Maximum Controlled Emissions (lb/hr)	Allowable Emissions (lb/hr)
01	Silo material handling	125	3	0.0375	37.5
02	Thermoformer grinder	4.8	0.343	1.65	9.5
03	Thermoformer regrinder	4.8	0.0833	0.02	9.5
04	Thermoformer blender	8	0.0833	0.00087	0.0038
05	Crystallizer and process heater	8	0.0833	0.00007	0.00029
06	Dryer and process heater	8	0.0833	0.00007	13.03
07	Material transfer A	8	0.0833	0.00087	13.03
08	Material transfer B	8	0.0833	0.00087	13.03
09	Extruder	8	0.1368	1.0944	13.03
10	Thermoformer	8	0.0606	0.4848	13.03
11	Tim press	8	0.0833	0.666	13.03
12	Injection molding grinder	0.24	6.86	1.65	2.34
13	Injection molding regrinder	0.24	0.0833	0.020	2.34
14	Injection molding blender	0.8	0.0833	0.0009	3.12
15	Material transfer B	0.8	0.0833	0.0009	3.12
16	Injection molding	0.8	0.436	0.3488	3.12
17	Cooling tower	500	0.0045	2.28	46.8

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

Also refer to subsection 4: Monitoring Requirements.

- b. For compliance with the visible emission limitation, refer to **4. Monitoring Requirements** and **5. Recordkeeping Requirements**.

3. **Testing Requirements:** N/A

4. **Monitoring Requirements:**

In order to demonstrate compliance with 401 KAR 59:010, the permittee shall perform weekly visual observations from each stack, when units associated with each stack are in operation. If emissions are observed, an EPA Method 9 test shall be performed.

5. **Recordkeeping Requirements:**

In order to demonstrate compliance with 401 KAR 59:010, Section 3(1), a record of weekly visual observations and any EPA Method 9 test performed shall be maintained.

6. **Reporting Requirements:** See Section C, General Conditions, C.1,C.2.,C.3., and F.2.

SECTION C - GENERAL CONDITIONS

A. Administrative Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040, Section 15]
3. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Material incorporated by reference by 401 KAR 52:040, Section 1a, 11].
4. Pursuant to materials incorporated by reference by 401 KAR 52:040, this permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition [Material incorporated by reference by 401 KAR 52:040, Section 1a, 4,5].
5. This permit does not convey property rights or exclusive privileges [Material incorporated by reference by 401 KAR 52:040, Section 1a, 8].
6. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:040 Section 11(3)].
7. This permit shall be subject to suspension at any time the permittee fails to pay all fees within 90 days after notification as specified in 401 KAR 50:038, Air emissions fee. The permittee shall submit an annual emissions certification pursuant to 401 KAR 52:040, Section 20

B. Recordkeeping Requirements

1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:040 Section 3(1)(f)].

SECTION C - GENERAL CONDITIONS (CONTINUED)

2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

C. Reporting Requirements

1. a. In accordance with the provisions of 401 KAR 50:055, Section 1, the permittee shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - i. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
- b. The permittee shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition 1. a. above), the probable cause of the deviation, and corrective or preventive measures taken; to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report [Material incorporated by reference by 401 KAR 52:040, Section 5, 3].
2. The permittee shall furnish information requested by the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the permit [Material incorporated by reference by 401 KAR 52:040, Section 1a, 6].
3. Summary reports of monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.

The summary reports are due January 30th and July 30th of each year. All deviations from permit requirements shall be clearly identified in the reports. All reports shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

SECTION C - GENERAL CONDITIONS (CONTINUED)

D. Inspections

1. In accordance with the requirements of 401 KAR 52:040, Section 3(1)(f) the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation.
 - b. To access and copy any records required by the permit.
 - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit.
 - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

E. Emergencies/Enforcement Provisions

1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Material incorporated by reference by 401 KAR 52:040, Section 1a, 3].
2. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
3. Emergency provisions listed in General Condition E.2 are in addition to any emergency or upset provision contained in an applicable requirement [401 KAR 52:040, Section 22(1)].
4. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:040, Section 22(2)].

SECTION C- GENERAL CONDITIONS (CONTINUED)

F. Compliance

1. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
 - a. Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1.
 - b. All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and no routine maintenance performed on each control device.
 - c. A log of the monthly raw material consumption and monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program, spread sheets, calculations or performance tests as may be specified by the Division [401 KAR 50:055, Section 2].
2. Pursuant to 401 KAR 52:040, Section 19, the permittee shall certify compliance with the terms and conditions contained in this permit by January 30th of each year, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Regional Office listed on the front of this permit in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period, and
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
 - f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications shall be mailed to the following addresses:

Division for Air Quality
Frankfort Regional Office
643 Teton Trail, Suite B
Frankfort, KY 40601-1758

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601-1403

SECTION C - GENERAL CONDITIONS (CONTINUED)

3. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all:
 - (a) Applicable requirements that are included and specifically identified in this permit; or
 - (b) Non-applicable requirements expressly identified in this permit [401 KAR 52:040, Section 11].

G. Construction Requirements:

1. Pursuant to 401 KAR 52:040, Section 12(4)(a) and 401 KAR 59:005, General provisions, Section 3(1), within 30 days following construction commencement, within 15 days following start-up and attainment of maximum production rate, or within 15 days following the issuance date of this permit, whichever is later, the owner and/or operator of the affected facilities specified on this permit shall furnish to the Owensboro Regional Office, with a copy to the Division's Frankfort Central Office, the following:
 - a. Date when construction commenced, (See General Condition G.1).
 - b. Start-up date of each of the affected facilities listed on this permit.
 - c. Date when maximum production rate was achieved, (See General Condition G.3.b).
2.
 - a. Pursuant to 401 KAR 59:005, General provisions, Section 2(1), this permit shall allow operation for compliance demonstration of the affected facilities listed herein. However, within 60 days after the issuance date of this permit or the date of achieving the maximum production rate at which the affected facilities will be operated, whichever is later, but no later than 180 days after initial start-up of such facilities, or the issuance date of this permit, whichever is later, the owner or operator shall demonstrate compliance to a duly authorized representative of the Division.
 - b. Pursuant to 401 KAR 50:045 Section 5 in order to demonstrate that a source is capable of complying with a standard at all times, a performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive this requirement on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.
3. Operation of the affected facilities authorized by this permit shall not commence until compliance with applicable standards specified herein has been demonstrated in accordance with the requirements of 401 KAR 52:040, Section 12(4)(b). Until compliance is demonstrated, the source may only operate for the purpose of demonstrating compliance.

SECTION D - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:040, Section 6. While these activities are designated as insignificant the permittee shall comply with the applicable regulation and any level of periodic monitoring specified below.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Welding Operations (Maintenance)	401 KAR 59:010
2. Heaters (3)	401 KAR 59:015 and 401 KAR 61:015
2.1) 8.6 mmBtu/hr	
2.2) 6 mmBtu/hr	
2.3) 0.71 mmBtu/ hr	
3. Boiler	401 KAR 59:015 and 401 KAR 61:015
0.28 mmBtu/hr	
4. Product Testing Ovens (electric)	401 KAR 63:010